Index to volume 3

Author index

A

ACTON, FORMAN S. (*See* Seed, Acton, and Stunkard), 191

ALMON, JOHN V. (*See* Boshell, Wilensky, Barrett, and Almon), 750

AMBRUS, J. L. (*See* Back, Ambrus, Velasco, Stutzman, Sokal, and Klein), 305

B

BACK, N., AMBRUS, J. L., VELASCO, H., STUTZMAN, L., SOKAL, J. E., AND KLEIN, E. Clinical and experimental pharmacology of parenteral spiramycin, 305

BARRETT, JAMES C. (*See* Boshell and Barrett), 705

— (*See* Boshell, Wilensky, Barrett, and Almon), 750

BEECHER, HENRY K. Some fallacies and errors in the application of the principle of consent in human experimentation (Edit.), 141

BICKERMAN, HYLAN A. Clinical pharmacology of antitussive agents, 353

BODI, TIBOR (*See* Nodine, Bodi, Levy, Siegler, Slap, Mapp, and Khorsandian), 432

BOSHELL, BURIS R., AND BARRETT, JAMES C. Oral hypoglycemic agents, 705

—, WILENSKY, ALLAN S., BARRETT, JAMES C., AND ALMON, JOHN V. Acetohexamide: Comparison with other sulfonylurea compounds in the treatment of diabetes mellitus, 750

BREST, ALBERT N. (*See* Seller, Fuchs, Onesti, Swartz, Brest, and Moyer), 180

BROCK, JOSEPH T. (*See* Gruber, Brock, and Dyken), 23

BRODIE, BERNARD B. Symposium on clinical drug evaluation and human pharmacology. VI. Difficulties in extrapolating data on metabolism of drugs from animal to man, 374

BROSS, IRWIN D. J. Symposium on clinical drug evaluation and human pharmacology. V. An ametric approach to bioassay, 369

BUMPUS, F. MERLIN (*See* Page and Bumpus), 758

C

CASEY, J. F. (*See* Overall, Hollister, Pokorny, Casey, and Katz), 16

CLARKSON, BAYARD (*See* Mori, Clarkson, O'Connor, and Lawrence), 447

D

DALLAS, MARY E. (*See* Taylor, Gardier, Stoelting, and Dallas), 593

DEVERY, WILLIAM J. (*See* Holliday and Devery), 5

DÍES, FEDERICO, AND RIVERA, ALFONSO. A possible mechanism of action of the antidiuretic effect of benzothiadiazine derivatives, 172

DINEEN, PETER. Clinical pharmacology of the semisynthetic penicillins, 224

DOMINO, EDWARD F. Human pharmacology of tranquilizing drugs, 599

DOWLING, HARRY F., LEPPER, MARK H., AND JACKSON, GEORGE GEE. Suppressive therapy of chronic bronchial infections, 564

DRAGSTEDT, CARL A. Who killed Cock Robin? (Edit.), 721

DUNNETT, CHARLES W. (*See* Remington and Finland), 284

DUREMAN, E. I. Behavioral patterns of antibarbituric action after 5-phenyl-2-imino-4-oxo-oxazolidine, amphetamine, and caffeine, 163

—. Differential patterning of behavioral effects

January-February pp. 1-140; March-April pp. 141-280; May-June pp. 281-420; July-August pp. 421-560; September-October pp. 561-720; November-December pp. 721-858.

from three types of stimulant drugs, 29

Dyken, Mark (*See* Gruber, Brock, and Dyken), 23

E

Elliott, Henry W. Influence of previous therapy on anesthesia, 41

Epstein, Jeanne A., and Kupperman, Herbert S. Oral antifertility measures, 216

F

Finland, M. (*See* Remington and Finland), 284

Frawley, Thomas F., and Shelley, Thomas F. Symposium on clinical drug evaluation and human pharmacology. XV. Assay of hypoglycemic agents in man, 528

Friend, Dale G. Antihypertensive drugs, 269

—. Pharmaceutic preparation and clinical efficacy of drugs, 417

—. Poor drug therapy, 557

Fuchs, Morton (*See* Seller, Fuchs, Onesti, Swartz, Brest, and Moyer), 180

G

Gardier, Robert W. (*See* Taylor, Gardier, Stoelting, and Dallas), 593

Giglio, Joseph J. (*See* Liguori, Giglio, Miller, and Sullivan), 34

Greiner, Theodore. The hypothesis in clinical pharmacology, 147

Gruber, Charles M., Jr., Brock, Joseph T., and Dyken, Mark. Comparison of the effectiveness of phenobarbital, mephobarbital, primidone, diphenylhydantoin, ethotoin, metharbital, and methylphenylethylhydantoin in motor seizures, 23

H

Holland, James F. (*See* Regelson and Holland), 730

Holliday, Audrey R., and Devery, William J. Effects of drugs on the performance of a task by fatigued subjects, 5

Hollister, Leo E. (*See* Overall, Hollister, Pokorny, Casey, and Katz), 16

Hueper, W. C. Symposium on chemical carcinogenesis. I. Environmental and occupational cancer hazards, 776

Hussar, Allen E. Neomycin spray in the treatment of nasal carriers of staphylococcus, 441

I

Ingelfinger, F. J. Symposium on clinical drug evaluation and human pharmacology. XIX. Clinical judgment in clinical research, 685

Ingle, Dwight J. Symposium on clinical drug evaluation and human pharmacology. II. Control and exploration of animal variables in drug research, 242

Ingram, Charles G. Some pharmacologic actions of yohimbine and chlorpromazine in man, 345

J

Jackson, George Gee (*See* Dowling, Lepper, and Jackson), 564

K

Katz, George (*See* Overall, Hollister, Pokorny, Casey, and Katz), 16

Kessler, Richard H. Clinical pharmacology of chlorothiazide compounds, 109

Khorsandian, Rostam (*See* Nodine, Bodi, Levy, Siegler, Slap, Mapp, and Khorsandian), 432

Kirsner, Joseph B., Rubio, Carlos E., Mlynaryk, Peter, and Reed, Peter I. Symposium on clinical drug evaluation and human pharmacology. XIII. Problems in the evaluation of gastrointestinal drugs, 510

Klein, E. (*See* Back, Ambrus, Velasco, Stutzman, Sokal, and Klein), 305

Kubota, Yukio, and Vandam, Leroy D. Circulatory effects of halothane in patients with heart disease, 153

Kupperman, Herbert S. Symposium on clinical drug evaluation and human pharmacology. XIV. Problems in the clinical evaluation of sex steroids, 519

— (*See* Epstein and Kupperman), 216

L

Lawrence, Walter, Jr. (*See* Mori, Clarkson, O'Connor, and Walter), 447

Leopold, Irving H. The eye as a pharmacologic laboratory (Edit.), 561

Lepper, Mark. Symposium on clinical drug evaluation and human pharmacology. X. Evaluation of antibacterial agents, 392

— (*See* Dowling, Lepper, and Jackson), 564

Levy, Howard A. (*See* Nodine, Bodi, Levy, Siegler, Slap, Mapp, and Khorsandian), 432

Lichter, Edward A., and Sobel, Solomon. Variable sensitivity of assay methods of tetracycline and demethylchlortetracycline in human volunteers, 580

Liguori, Vincent R., Giglio, Joseph J., Miller, Edward, and Sullivan, Robert D.

Effects of different dose schedules of amethopterin on serum and tissue concentrations and urinary excretion patterns, 34

LITCHFIELD, JOHN T., JR. Symposium on clinical drug evaluation and human pharmacology. XVI. Evaluation of the safety of new drugs by means of tests in animals, 665

LOWN, BERNARD, PORTMAN, OSCAR W., AND STARE, FREDRICK J. Some comments on the use of agents which lower serum cholesterol (Edit.), 421

M

MALMCRONA, R. (*See* Schröder, Malmcrona, Varnauskas, and Werkö), 425

MAPP, YOLANDA (*See* Nodine, Bodi, Levy, Siegler, Slap, Mapp, and Khorsandian), 432

MARTZ, B. L . A diuretic assay utilizing normal subjects, 340

MERLIS, SIDNEY. Symposium on clinical drug evaluation and human pharmacology. IX. Research on psychopharmacology, 389

MILLER, EDWARD (*See* Liguori, Giglio, Miller, and Sullivan), 34

MLYNARYK, PETER (*See* Kirsner, Rubio, Mlynaryk, and Reed), 510

MODELL, WALTER. Clinical pharmacology of antianginal drugs, 97

—. Symposium on clinical drug evaluation and human pharmacology. Introduction. Clinical pharmacology: A definition, 235

MORI, SHYUNICHI, CLARKSON, BAYARD, O'CONNOR, ANNABEL, AND LAWRENCE, WALTER, JR. Experimental perfusion system utilizing the rabbit Vx-2 carcinoma. II. Correlative studies of in vitro sterilization of Vx-2 cells with results of perfusions in rabbits and in patients, 447

MOSER, ROBERT HARLAN. Diseases of medical progress: Present status 258, 400, 535, 688, 814

MOYER, JOHN H., III (*See* Seller, Fuchs, Onesti, Swartz, Brest, and Moyer), 180

MURPHREE, HENRY B. Clinical pharmacology of potent analgesics, 473

—. Quantitative studies in humans on the antagonism of lysergic acid diethylamide by chlorpromazine and phenoxybenzamine, 314

N

NELSON, EINO. Symposium on clinical drug evaluation and human pharmacology. XVII. Physicochemical and pharmaceutic properties of drugs that influence the results of clinical trials, 673

NODINE, JOHN H., BODI, TIBOR, LEVY, HOWARD A., SIEGLER, PETER E., SLAP, JOSEPH W., MAPP, YOLANDA, AND KHORSANDIAN, ROSTAM. Modified technique used in human bioassay of four butyrophenone derivatives in psychoneurotic patients, 432

O

O'CONNOR, ANNABEL (*See* Mori, Clarkson, O'Connor, and Walter), 447

ONESTI, GADDO (*See* Seller, Fuchs, Onesti, Swartz, Brest, and Moyer), 180

OVERALL, JOHN E., HOLLISTER, LEO E., POKORNY, ALEX D., CASEY, J. F., AND KATZ, GEORGE. Drug therapy in depressions. Controlled evaluation of imipramine, isocarboxazide, dextroamphetamine-amobarbital, and placebo, 16

P

PAGE, IRVINE H., AND BUMPUS, F. MERLIN. A new hormone, angiotensin, 758

PAGET, G. E. Symposium on clinical drug evaluation and human pharmacology. VII. Correlation with potential toxicity to man of toxic effects in animals, 381

PFEIFFER, CARL C. Symposium on clinical drug evaluation and human pharmacology. XI. Exploratory trials of new drugs in man, 397

PHILIPSZOON, ADRIAAN J. Influence of cinnarizine on the labyrinth and on vertigo, 184

POKORNY, ALEX D. (*See* Overall, Hollister, Pokorny, Casey, and Katz), 16

POPPER, HANS. Symposium on clinical drug evaluation and human pharmacology. VIII. Potential drug toxicity to the liver, 385

PORTMAN, OSCAR W. (*See* Lown, Portman, and Stare), 421

R

REED, PETER I. (*See* Kirsner, Rubio, Mlynaryk, and Reed), 510

REGELSON, WILLIAM, AND HOLLAND, JAMES F. Effect of an anionic polyelectrolyte (polyethylene sulfonate) in patients with cancer, 730

REMINGTON, JACK S., AND FINLAND, M. Antibacterial activity of serum after oral doses of tetracycline, demethylchlortetracycline, and 6-methyleneoxytetracycline, 284

RINZLER, SEYMOUR H. Symposium on clinical drug evaluation and human pharmacol-

ogy. XII. Assessment of antianginal agents, 505
Rivera, Alfonso (*See* Díes and Rivera), 172
Roach, Charles J. Symposium on clinical drug evaluation and human pharmacology. XVIII. Data management, 682
Roepke, R. R. (*See* Remington and Finland), 284
Rubio, Carlos E. (*See* Kirsner, Rubio, Mlynaryk, and Reed, 510

S

Schröder, G., Malmcrona, R., Varnauskas, E., and Werkö, L. Hemodynamics during rest and exercise before and after prolonged digitalization in normal subjects, 425
Seed, John C., Acton, Forman, S., and Stunkard, Albert J. A model for the appraisal of glucose metabolism, 191
Seller, Robert H., Fuchs, Morton, Onesti, Gaddo, Swartz, Charles, Brest, Albert N., and Moyer, John H., III. Clinical experience with a new type of orally effective diuretic agent, 180
Shelley, Thomas F. (*See* Frawley and Shelley), 528
Shils, Maurice E. Some metabolic aspects of tetracyclines, 321
Shimkin, Michael B. Symposium on chemical carcinogenesis. Introduction, 774
Siegler, Peter E. (*See* Nodine, Bodi, Levy, Siegler, Slap, Mapp, and Khorsandian), 432
Slap, Joseph W. (*See* Nodine, Bodi, Levy, Siegler, Slap, Mapp, and Khorsandian), 432
Sobel, Solomon (*See* Lichter and Sobel), 580
Sokal, J. E. (*See* Back, Ambrus, Velasco, Stutzman, Sokal, and Klein), 305
Stare, Fredrick J. (*See* Lown, Portman, and Stare), 421
Stoelting, Vergil K. (*See* Taylor, Gardier, Stoelting, and Dallas), 593
Street, Elisabeth. Symposium on clinical drug evaluation and human pharmacology. III. A modification of the standard sequential test for the relative effectiveness of two therapies, 246
Stunkard, Albert J. (*See* Seed, Acton, and Stunkard), 191
Stutzman, L. (*See* Back, Ambrus, Velasco, Stutzman, Sokal, and Klein), 305
Sullivan, Robert D. (*See* Liguori, Giglio, Miller, and Sullivan), 34
Sulzberger, Marion B. Evaluation of therapeutic agents on the human skin: Method of simultaneous symmetrical paired comparisons (Edit.), 1
Swartz, Charles (*See* Seller, Fuchs, Onesti, Swartz, Brest, and Moyer), 180

T

Taylor, Cyril, Gardier, Robert W., Stoelting, Vergil K., and Dallas, Mary E. Clinical investigation of a new phenothiazine compound, methdilazine, 593
Taylor, J. D., and Wiegand, R. G. The analog computer and plasma drug kinetics, 464

V

Vandam, Leroy D. Clinical pharmacology of the narcotic analgesics, 827
—. Local anesthetics, 131
—. Pharmacologic discovery by anesthesiologists (Edit.), 281
— (*See* Kubota and Vandam), 153
Varnauskas, E. (See Schröder, Malmcrona, Varnauskas, and Werkö), 425
Velasco, H. (*See* Back, Ambrus, Velasco, Stutzman, Sokal, and Klein), 305

W

Werkö, L. (*See* Schröder, Malmcrona, Varnauskas, and Werkö), 425
Werner, Gerhard. Clinical pharmacology of central stimulant and antidepressant drugs, 59
Wiegand, R. G. (*See* Taylor and Wiegand), 464
Wilensky, Allan S. (*See* Boshell, Wilensky, Barrett, and Almon), 750
Wolf, Stewart. Symposium on clinical drug evaluation and human pharmacology. IV. Placebos: Problems and pitfalls, 254

Z

Zubrod, C. Gordon. Symposium on clinical drug evaluation and human pharmacology. I. General problems in the selection of drugs for clinical trial, 239

Subject index

A

Acetazolamide (Kessler), 109
Acetohexamide (Boshell and Barrett), 706
  comparison with other sulfonylurea compounds in diabetes mellitus (Boshell et al.), 750
Acetophenazine (Domino), 603
Acetyldigitoxin (Schröder et al.), 425
Actinomycin D, sterilization of rabbit Vx-2 carcinoma cells with (Mori et al.), 447
Adrenal gland, effect of angiotensin on (Page and Bumpus), 767
  -pituitary agents, effects on future anesthesia (Elliott), 42
Advances in pharmacology (Garattini and Shore) (B. rev.), 554
Aerosol therapy in chronic bronchopulmonary disease (Bickerman), 366
Alcohol, in anginal syndrome (Modell), 103
  and caffeine (Nash) (B. rev.), 821
Aldosterone secretion, control, angiotensin in (Page and Bumpus), 768
Algorithm for translating chemical names to molecular formulas (Garfield) (B. rev.), 266
Alkylating compounds, use in chemical interference with spermatogenesis (Epstein and Kupperman), 218
Alphaprodine (Murphree), 490; (Vandam) 837
Amebicides, use in chemical interference with spermatogenesis (Epstein and Kupperman), 219
Amenorrhea index (Kupperman), 521
Amethopterin, effects of different dose schedules on serum and tissue concentrations and urinary excretion patterns (Liguori et al.), 34
6-Aminopenicillanic acid (Dineen), 224
Amitriptyline (Domino), 608; (Holliday and Devery) 5; (Werner) 63, 76
Amobarbital sodium, response to test drugs after (Ingram), 348
Amphetamine (Dureman), 29; (Werner) 61, 76
  behavioral patterns of antibarbituric action after (Dureman), 163
D-Amphetamine (Holliday and Devery), 5
  -amobarbital (Overall et al.), 16
Analgesics, narcotic, clinical pharmacology (Vandam), 827
  potent, clinical pharmacology (Murphree), 473
Analog computer and plasma drug kinetics (Taylor and Wiegand), 464
Androgens, clinical evaluation, problems (Kupperman), 519
Anesthesia, halothane (Kubota and Vandam), 153
  influence of previous therapy on (Elliott), 41
Anesthesiologists, pharmacologic discovery by (Vandam) (Edit.), 281
Anesthetic use of methdilazine, clinical investigation (Taylor et al.), 593
Anesthetics, local (Vandam), 131
Angina, agents for, assessment (Rinzler), 505
Angiotensin, new hormone (Page and Bumpus), 758
Anileridine (Murphree), 491; (Vandam) 836
Aniline (Brodie), 378
Animal variables in drug research, control and exploration (Ingle), 242
Anionic polyelectrolyte (polyethylene sulfonate) in patients with cancer; clinical pharmacology of a macromolecule (Regelson and Holland), 730
Announcements, 129, 416, 556, 704, 826
Annual review of pharmacology (Cutting) (B. rev.), 554
Antianginal agents, assessment (Rinzler), 505
  clinical pharmacology (Modell), 97
Antianxiety effects of meprobamate (Domino), 642
Antibacterial activity of serum after oral doses of tetracycline, demethylchlortetracycline, and 6-methyleneoxytetracycline (Remington and Finland), 284
  after tetracycline and demethylchlortetracycline (Lichter and Sobel), 582
  agent, spiramycin, parenteral, clinical and experimental pharmacology (Back et al.), 305
  compounds, evaluation (Lepper), 392

January-February pp. 1-140; March-April pp. 141-280; May-June pp. 281-420; July-August pp. 421-560; September-October pp. 561-720; November-December pp. 721-858.

Antibarbituric action, behavioral patterns after 5-phenyl-2-imino-4-oxo-oxazolidine, amphetamine, and caffeine (Dureman), 163
Antibiotic, spiramycin (Back et al.), 305
therapy of chronic bronchial infections (Dowling, Lepper, and Jackson), 564
Antibiotics (Remington and Finland), 285
effects on future anesthesia (Elliott), 52
and growth stimulation (Shils), 330
variable sensitivity of assay methods of, in human volunteers (Lichter and Sobel), 580
Anticoagulants, effects on future anesthesia (Elliott), 52
use for angina pectoris (Modell), 104
Anticonvulsant effects of chlordiazepoxide (Domino), 650
Antidepressant and central stimulant drugs, clinical pharmacology (Werner), 59
Antidiuretic effect of benzothiadiazine derivatives, possible mechanism (Díes and Rivera), 172
Antifertility measures, oral (Epstein and Kupperman), 216
Antihistamine, cinnarizine, influence on labyrinth and vertigo (Philipszoon), 184
Antihypertensive drugs (Friend), 269
Antimetabolites, use in chemical interference with spermatogenesis (Epstein and Kupperman), 219
Antipyrine (Brodie), 378
Antithyroid agents, use for angina pectoris (Modell), 105
Antitussive agents, clinical pharmacology (Bickerman), 353
Anxiety, meprobamate in treatment (Domino), 642
Apomorphine (Murphree), 487
Aromatic amino and nitro compounds, azo dyes, and related chemicals, cancer hazards (Hueper), 777
hydrocarbons, polycyclic, cancer hazard, 785
Arsenic, cancer hazard, 791
Arteriosclerotic and tumorigenic associations of exogenous and endogenous agents, 792
Arylsulfonylureas (Frawley and Shelley), 529
Asbestos, cancer hazard (Hueper), 795
Assay methods of tetracycline and demethylchlortetracycline in human volunteers, variable sensitivity (Lichter and Sobel), 580
Asthma, infectious, suppressive therapy (Dowling, Lepper, and Jackson), 564
Atropine (Kirsner et al.), 514
sulfate, response to yohimbine after (Ingram), 348
Autonomic nervous system effects of Rauwolfia alkaloids (Domino), 634
Azepinamide (Boshell and Barrett), 706; (Boshell et al.) 750
Azo dyes, cancer hazard (Hueper), 777

B

Bacillus cereus (Lichter and Sobel), 580
Barbiturates and central stimulation, utilization with local anesthetics (Vandam), 137
other sedatives, and tranquilizers, use in anginal therapy (Modell), 103
Behavioral effects of meprobamate (Domino), 644
of phenothiazines, 608
from three types of stimulant drugs, differential patterning (Dureman), 29
patterns of antibarbituric action after 5-phenyl-2-imino-4-oxo-oxazolidine, amphetamine, and caffeine (Dureman), 163
Benzol, cancer hazard (Hueper), 790
Benzonatate, antitussive activity (Bickerman), 365
Benzothiadiazines (Friend), 275
derivatives, possible mechanism of action of antidiuretic effect (Díes and Rivera), 172
3,4-Benzpyrene, carcinogenic hazard (Hueper), 785
Benzquinamide (Domino), 632
Benzydroflumethiazide (Friend), 274
Benzylpenicillin (penicillin G) (Dineen), 224
Beryllium (Paget), 382
cancer hazard (Hueper), 797
Biguanides, hypoglycemic activity (Frawley and Shelley), 529
Bioassay, ametric approach (Bross), 369
human, of four butyrophenone derivatives in psychoneurotic patients, modified technique (Nodine et al.), 432
Biochemical mechanism of action of phenformin (Boshell and Barrett), 713
of phenothiazines (Domino), 618
of Rauwolfia alkaloids, 636
of sulfonylurea drugs (Boshell and Barrett), 706
Biochemicals, exploratory trials in man (Pfeiffer), 397
Biochemists' handbook (Lang) (B. rev.), 820
Biologic activity of angiotensin, relationship to structure (Page and Bumpus), 761
Biological approaches to cancer chemotherapy (Harris) (B. rev.), 410
Blood component determinations, effects of polyethylene sulfonate for cancer on levels (Regelson and Holland), 736
nitrogen, changes in, caused by tetracyclines (Shils), 322, 328
and other body fluids (Altman and Dittmer) (B. rev.), 122

Blood—Cont'd
pressures and heart rate, response to chlorpromazine and yohimbine (Ingram), 345
sugar levels after acetohexamide (Boshell et al.), 755
Book reviews
Advances in pharmacology (Garattini and Shore), 554
Alcohol and caffeine (Nash), 821
An algorithm for translating chemical names to molecular formulas (Garfield), 266
Annual review of pharmacology (Cutting), 554
Biochemists' handbook (Lang), 820
Biological approaches to cancer chemotherapy (Harris), 410
Blood and other body fluids (Altman and Dittmer), 122
Brain mechanisms and learning (Delafresnaye), 119
Cancer chemotherapy (Clark), 410
Chemistry of drug metabolism (Fishman), 701
Control of ovulation (Villée), 120
Dilling's clinical pharmacology (Alstead), 414
The fire of life: An introduction to animal energetics (Kleiber), 267
Lectures on the scientific basis of medicine (British Postgraduate Medical Federation), 123
Medical pharmacology: Principles and concepts (Goth), 121
physiology (Bard), 122
Metabolic pathways (Greenberg), 414
Modern treatment yearbook (Wakely), 821
Pain: Its modes and functions (Buytendijk), 822
Pathologic physiology; mechanisms of disease (Sodeman), 413
The Pfizer handbook of microbial metabolites (Miller), 265
Pharmacological and chemical synonyms (Marler), 701
Physiological regulation of salivary secretions in man (Kerr), 553
Principles of medical statistics (Hill), 412
Progress in drug research (Jucker), 411
Regional neurochemistry (Kety and Elkes), 264
Shock pathogenesis and therapy (Bock), 820
Some recent developments in the chemistry of phosphate esters of biological interest (Khorana), 123
The structure and function of muscle. 3. Pharmacology and disease (Bourne), 266
Book reviews—Cont'd
Style manual for biological journals (Conference of Biological Editors), 554
The toadstool millionaires (Young), 121
Toxic hazards (Massachusetts Medical Society), 264
Books received, 124, 268, 415, 555, 702, 822
Brain damage, focal (Gruber, Brock, and Dyken), 23
mechanisms and learning (Delafresnaye) (B. rev.), 119
Bretylium tosylate (Friend), 276
Bronchial infections, chronic, suppressive therapy (Dowling, Lepper, and Jackson), 564
Butyrophenone derivatives, four, human bioassay in psychoneurotic patients, modified technique (Nodine et al.), 432

C

Caffeine (Dureman), 29
behavioral patterns of antibarbituric action after (Dureman), 163
Cancer chemotherapy (Clark) (B. rev.), 410
effect of an anionic polyelectrolyte (polyethylene sulfonate) in; clinical pharmacology of a macromolecule (Regelson and Holland), 730
hazards, environmental and occupational (Hueper), 776
Caramiphen ethanedisulfonate, antitussive activity (Bickerman), 361
Carbetapentane citrate, antitussive activity, 362
Carbon polymers and plastics, cancer hazard (Hueper), 801
Carbonaceous combustion and distillation products, cancer hazards, 785
Carbonic anhydrase inhibitory action of chlorothiazide (Kessler), 113
Carcinogenesis, chemical, symposium, 774, 776
Carcinoma, rabbit Vx-2, experimental perfusion system utilizing; correlative studies of in vitro sterilization of Vx-2 cells with results of perfusions in rabbits and patients (Mori et al.), 447
Cardiac measurements after digitalization (Schröder et al.), 425
Cardiovascular agents, effects on future anesthesia (Elliott), 47
system, effects of phenothiazines on (Domino), 614
Carphenazine, 603
Catecholamine (Werner), 60
Cellular and subcellular effects of tetracyclines (Shils), 332
Central depressants, effects on future anesthesia (Elliott), 50
nervous system depression by phenothiazines (Domino), 608

Central nervous system—Cont'd
effects of Rauwolfia alkaloids, 634
stimulant and antidepressant drugs, clinical pharmacology (Werner), 59
Centrally acting antitussive agents (Bickerman), 357
Chelating agents, use for angina (Modell), 104
Chelation and inhibition of metabolism by tetracyclines (Shils), 333
Chemical carcinogenesis, symposium, 774, 776
Chemicals, organic, carcinogenic (Hueper), 782
radioactive, cancer hazard, 803
Chemistry of drug metabolism (Fishman) (B. rev.), 701
Chemotherapeutic agents, regional perfusion in treatment of localized tumors (Mori et al.), 447
Chlordiazepoxide (Domino), 649
Chlorisondamine (Friend), 278
Chloroprocaine (Vandam), 132
Chlorothiazide (Friend), 274
compounds, clinical pharmacology (Kessler), 109
natriuretic potency (Martz), 341
Chlorpromazine (Domino), 603
pharmacologic actions in man (Ingram), 345
and phenoxybenzamine, antagonism of lysergic acid diethylamide by, quantitative studies in humans (Murphree), 314
Chlorpromethazine (Domino), 603
Chlorpropamide (Boshell and Barrett), 705; (Boshell et al.) 750; (Frawley and Shelley), 529
Chlorprothixene (Domino), 608
Chlortetracycline (Shils), 322
Cholesterol, serum, agents which lower, comments (Lown, Portman, and Stare) (Edit.), 421
Cholesterolytic agents, use for angina pectoris (Modell), 105
Chromium, cancer hazard (Hueper), 798
Cinchona alkaloids, use for angina pectoris (Modell), 104
Cinnarizine, influence on the labyrinth and on vertigo (Philipszoon), 184
Circulation, action of angiotensin on (Page and Bumpus), 764
Circulatory effects of halothane in patients with heart disease (Kubota and Vandam), 153
of narcotic analgesics (Vandam), 829
Classification, chemical, narcotic analgesics, 832
of tranquilizing drugs (Domino), 601
Clinical drug evaluation and human pharmacology, symposium, 235, 239, 242, 246, 254, 369, 374, 381, 385, 389, 392, 397, 505, 510, 519, 528, 665, 673, 682, 685
efficacy and pharmaceutic preparation of drugs (Friend), 417
Clinical—Cont'd
evaluation of sex steroids, problems (Kupperman), 519
experience with a new type of orally effective diuretic agent (Seller et al.), 180
and experimental pharmacology of parenteral spiramycin (Back et al.), 305
investigation of a new phenothiazine, methdilazine (Taylor et al.), 593
judgment in clinical research (Ingelfinger), 685
pharmacology of antianginal drugs (Modell), 97
of antitussive agents (Bickerman), 353
of central stimulant and antidepressant drugs (Werner), 59
of chlorothiazide compounds (Kessler), 109
a definition (Modell), 235
hypothesis in (Greiner), 147
of a macromolecule; effect of anionic polyelectrolyte (polyethylene sulfonate) in cancer (Regelson and Holland), 730
of narcotic analgesics (Vandam), 827
of potent analgesics (Murphree), 473
of semisynthetic penicillins (Dineen), 224
trial, selection of drugs for, general problems (Zubrod), 239
physicochemical and pharmaceutic properties of drugs influencing (Nelson), 673
Clophendianol, antitussive activity (Bickerman), 364
Coagulase-positive *Staphylococcus aureus*, neomycin spray in treatment of nasal carriers (Hussar), 444
Cobalt, cancer hazard (Hueper), 797
Cocaine (Vandam), 132
Codeine (Vandam), 833
antitussive activity (Bickerman), 357
and derivatives (Murphree), 475, 487
Colitis, ulcerative, and irritable colon, evaluation of drugs for (Kirsner et al.), 515
Computer, analog, and plasma drug kinetics (Taylor and Wiegand), 464
Constipation, chronic, laxative therapy (Kirsner et al.), 516
Contraception, oral (Epstein and Kupperman), 216
Control of ovulation (Villée) (B. rev.), 120
Correspondence, 125, 703, 823
Cortisone in ulcerative colitis, evaluation (Kirsner et al.), 516
Cough, alleviation by antitussive agents (Bickerman), 353
Cyclandelate, use for angina (Rinzler), 507
Cycloheptolamide (Boshell et al.), 750
Cyclophosphamide, failure to cause sterilization of rabbit Vx-2 carcinoma cells in vitro (Mori et al.), 447
Cyclothiazide, natriuretic potency (Martz), 341
Cyproheptadine (Domino), 608

D

Data management (Nelson), 682
Deanol (Werner), 64, 78
Demethylchlortetracycline (Shils), 322
oral doses, antibacterial activity of serum after (Remington and Finland), 284
and tetracycline, assay methods in human volunteers, variable sensitivity (Lichter and Sobel), 580
Demulcents, antitussive activity (Bickerman), 364
Dependence, physical, on meprobamate (Domino), 648
on narcotic analgesics (Vandam), 831
Depressants, central, effects on future anesthesia (Elliott), 50
Depression, drug treatment (Werner), 71
controlled evaluation of imipramine, isocarboxazide, dextroamphetamine-amobarbital, and placebo (Overall et al.), 16
Deserpidine (Domino), 630; (Friend) 272
Desomorphine (Murphree), 487
Dextromethorphan, antitussive activity (Bickerman), 358
Dextropropoxyphene (Murphree), 491
Diabetes mellitus, hypoglycemic drugs for (Boshell and Barrett), 705
assay in man (Frawley and Shelley), 528
treatment, comparison of acetohexamide and other sulfonylurea compounds in (Boshell et al.), 750
Diacetylmorphine (Vandam), 833
Dibucaine hydrochloride (Vandam), 134
Dichlorphenamide (Kessler), 109
Diethazine (Domino), 603
Diethylstilbestrol (Kirsner et al.), 515
Digitalization, prolonged, in normal subjects, rest and exercise before and after, hemodynamics during (Schröder et al.), 425
Digitoxin, 425
Diguanides (Boshell and Barrett), 713
Dihydrochlorothiazide (Friend), 274
Dihydrocodeine (Vandam), 833
Dihydrocodeinone (Murphree), 487; (Vandam) 833
antitussive activity (Bickerman), 357
Dihydroflumethiazide (Díes and Rivera), 172; (Friend) 274
Dihydrohydroxycodeinone (Murphree), 488
Dihydrohydroxymorphinone (Vandam), 834
Dihydromorphinone (Murphree), 486; (Vandam) 833
antitussive activity (Bickerman), 357
Dilling's clinical pharmacology (Alstead) (B. rev.), 414
Dimethoxanate hydrochloride, antitussive activity (Bickerman), 363
Dimethoxyphenylpenicillin (Dineen), 224
Diphenylhydantoin, effectiveness in motor seizures, comparison with phenobarbital, mephobarbital, primidone, ethotoin, metharbital, and methylphenylethylhydantoin (Gruber, Brock, and Dyken), 23
Diseases of medical progress, present status (Moser)
Acute disseminated candidiasis and aplastic anemia; potentiation by antibiotics and steroids (Bendel and Race), 402
Agranulocytosis after diphenylhydantoin and chlorothiazide therapy (Slevin and Broun), 403
secondary to hydrochlorothiazide therapy; report of a case (Chrein and Rubin), 814
Amodiaquine hydrochloride: Corneal deposits and pigmented palate and nails after treatment of chronic discoid lupus erythematosus (Maguire), 692
An anaphylactic reaction to sodium dehydrocholate (Decholin) (Elliott, Vidrine, and Goldman), 260
Antithyroid activity of *N*-phthalyl glutamic acid amide (K17) (Murdoch and Campbell), 535
Aspirin and gastric bleeding (Weiss, Pitman, and Graham), 260
Chromosome damage during nitrogen mustard therapy: A case report (Conen and Lansky), 688
The clinical intoxication induced by a heparinoid (Field, Attyah, Ramsay, and Levitt), 259
Correspondence. Is thalidomide to blame? (Burley), 536; (Florence) 536; (Kuenssberg, Simpson, and Stanton) 537
Myxedema after thalidomide (Lillicrap), 541
("Distaval") (Simpson), 540
Neuropathy after thalidomide ("Distaval") (Heathfield), 537; (Howe) 540; (McGrath, Brown, and Tucson) 538; (Stevenson, Meade, Rosalki, and Cahill) 537
(thalidomide) (Fullerton and Kremer; Pirrie; Swift) 539; (Greene and Farran) 535
Withdrawal of thalidomide ("Distaval") (Gosling), 542
Demethylchlortetracycline phototoxicity (Saslow), 402
Ethionamide neuropathy (Leggat), 816

Diseases of medical progress—Cont'd
Fat infusion; toxic effects and alterations in fasting serum lipids following prolonged use (Alexander and Zieve), 401
Fibrosis of central and hepatic veins and perisinusoidal spaces of the liver following prolonged administration of urethane (Brodski, Johnson, Killman, and Cronkite), 261
Fixed drug eruption to carisoprodol and cross reaction with meprobamate (Honeycutt and Curtis), 815
Granulocytopenia due to chlorpromazine (Carfagno and Magee), 400
Hepatic injury found during chronic chlorpromazine therapy; preliminary clinical study (Waitzkin and MacMahon), 814
Impaired vision after prolonged chloroquine therapy (Sataline and Farmer), 689
Influence of salicylate administration on iron metabolism (Izak, Galewsky-Stein, and Groen), 690
Insomnia (drug treatment of disease) (Douthwaite), 536
Letters to the editor. Distaval (Hayman), 538
Thalidomide and congenital abnormalities (Burley), 541; (Hayman) 540; (Jones and Williamson) 541; (Lenz) 539; (McBride) 539; (Pfeiffer and Kosenow) 540
Leukocyte antibodies following single massive transfusion of living leukocytes at cardiac surgery (Walford, Anderson, and Doyle), 403
Lymphosarcoma (Rosenberg, Diamond, Jaslowitz, and Grauer), 400
Neurological manifestations after amphotericin B therapy (Haber and Joseph), 690
Neuropathy after intake of thalidomide (Distaval) (Fullerton and Kremer), 537
Obstructive uropathy complicating anticoagulant therapy (Kaden and Friedman), 402
Pancreatic atrophy, apparently secondary to hydrochlorothiazide (Shanklin), 691
Phenindione hepatitis complicating acute coagulant therapy (Portal and Emanuel), 260
sensitivity (Perkins), 815
Reduction of potassium depletion by benzothiadiazine compounds (Sackner, Davidson, Sandburg, Feinburg, and Bellet), 689
Severe arteriospasms after the use of ergotamine tartrate suppositories (Young and Humphries), 258
Severe hemolytic transfusion reactions caused by apparently compatible red cells (Kissmeyer-Nielsen, Jensen, and Ersbak), 401
Shock, liver necrosis, and death after penicillin injection (Murphy and Mireles), 691
Thalidomide—A new nonbarbiturate sleep-inducing drug (Lasagna), 536
Tolbutamide-induced hypoglycemia: Report of an unusual case (Kreeger), 816
Tuberculosis occurring in association with corticosteroid treatment (Mayfield), 815
Two cases of chloroquine induced retinal damage (Ormrod), 688
Variations in pigmentation from quinacrine. Report of a case mimicking chronic hepatic disease (Kyle and Bartholomew), 689
Xanthomatous biliary cirrhosis following chlorpromazine (Kohn and Myerson), 261
Disulfiram, effects on future anesthesia (Elliott), 51
Diuretic agent, orally effective, new type, clinical experience (Seller et al.), 180
agents (Kessler), 109
assay utilizing normal subjects (Martz), 340
Dosage forms, influence on results (Nelson), 677
Dose schedules of amethopterin, different, effects on serum and tissue concentrations and urinary excretion patterns (Liguori et al.), 34
Drug evaluation, clinical, and human pharmacology, symposium, 235, 239, 242, 246, 254, 369, 374, 381, 385, 389, 392, 397, 505, 510, 519, 528, 665, 673, 682, 685
kinetics, plasma, and analog computer (Taylor and Wiegand), 464
research, animal variables in, control and exploration (Ingle), 242
therapy of depression (Werner), 71
controlled evaluation of imipramine, isocarboxazide, dextroamphetamine-amobarbital, and placebo (Overall et al.), 16
poor (Friend), 557
toxicity to liver, potential (Popper), 385
Drugs, antianginal, clinical pharmacology (Modell), 97
antihypertensive (Friend), 269
central stimulant and antidepressant (Werner), 59
effects on performance of a task by fatigued subjects (Holliday and Devery), 5
gastrointestinal, evaluation, problems (Kirsner et al.), 510

Drugs—Cont'd
information on, new, 263, 543, 693, 818
metabolism, data on, extrapolating from animal to man, difficulties (Brodie), 374
names for, new, 263, 404, 543, 693, 818
new, evaluation of safety by tests in animals (Litchfield), 665
exploratory trials in man (Pfeiffer), 397
for investigational use; proposed exemptions, 695
pharmaceutic preparation and clinical efficacy (Friend), 417
physicochemical and pharmaceutic properties of that influence results of clinical trials (Nelson), 673
selection for clinical trial, general problems in (Zubrod), 239
stimulant, three types, differential patterning of behavioral effects from (Dureman), 29
tranquilizing, human pharmacology (Domino), 599
Dyes, azo, cancer hazard (Hueper), 777

E

Editorials
Evaluation of therapeutic agents on the human skin: Method of simultaneous symmetrical paired comparisons (Sulzberger), 1
The eye as a pharmacologic laboratory (Leopold), 561
Pharmacologic discovery by anesthesiologists (Vandam), 281
Some comments on the use of agents which lower serum cholesterol (Lown, Portman, and Stare), 421
fallacies and errors in the application of the principle of consent in human experimentation (Beecher), 141
Who killed Cock Robin? (Dragstedt), 721
Electrocardiographic changes after digitalization (Schröder et al.), 426
Electroencephalogram, effects of meprobamate on (Domino), 646
of phenothiazines on, 612
Electrolyte balance, changes caused by tetracyclines (Shils), 322
Electronic computer, analog, and plasma drug kinetics (Taylor and Wiegand), 464
Emesis, postoperative, use of methdilazine to prevent (Taylor et al.), 593
Emphysema, suppressive therapy (Dowling, Lepper, and Jackson), 564
Endocrine effects of phenothiazines (Domino), 616
of Rauwolfia alkaloids, 636
Environmental and occupational cancer hazards (Hueper), 776
Epilepsy (Gruber, Brock, and Dyken), 23
Epinephrine, use with local anesthetics (Vandam), 137
Erythromycin, ineffectiveness in suppressive therapy of chronic bronchial infections (Dowling, Lepper, and Jackson), 564
Ester compound anesthetics (Vandam), 132
Estrogens, clinical evaluation, problems (Kupperman), 519
use for angina pectoris (Modell), 104
Ethoheptazine (Murphree), 491
Ethopropazine (Domino), 603
Ethotoin, effectiveness in motor seizures, comparison with phenobarbital, mephobarbital, primidone, diphenylhydantoin, metharbital, and methylphenylethylhydantoin (Gruber, Brock, and Dyken), 23
Ethyl biscoumacetate (Brodie), 375
Ethylmorphine (Murphree), 487
Etryptamine (Werner), 65, 75
Expectorants, antitussive action (Bickerman), 365
Experimental and clinical pharmacology of parenteral spiramycin (Back et al.), 305
perfusion system utilizing the rabbit Vx-2 carcinoma; correlative studies of in vitro sterilization of Vx-2 cells with results of perfusions in rabbits and in patients (Mori et al.), 447
Experimentation, human, principle of consent, fallacies and errors in application (Beecher) (Edit.), 141
Experiments in animals as test of safety of new drugs (Litchfield), 665
Eye as a pharmacologic laboratory (Leopold) (Edit.), 561

F

Fatigued subjects, performance of a task by, effects of drugs on (Holliday and Devery), 5
Fertilization, interference with (Epstein and Kupperman), 219
Fire of life; an introduction to animal energetics (Kleiber) (B. rev.), 267
Flumethiazide (Friend), 274
5-Fluoro-2′-deoxyuridine, failure to cause sterilization of rabbit Vx-2 carcinoma cells in vitro (Mori et al.), 447
Fluphenazine (Domino), 603
Focal brain damage (Gruber, Brock, and Dyken), 23
Food dyes, cancer hazards (Hueper), 777

G

Ganglionic blocking agents, use in antihypertensive therapy (Friend), 277

Gastrointestinal drugs, evaluation, problems (Kirsner et al.), 510
Genetic control of neutralization of angiotensin (Page and Bumpus), 766
Gestation, early, interference with (Epstein and Kupperman), 222
Glucose metabolism, model for appraisal (Seed, Acton, and Stunkard), 191
Gonadotropin inhibition (Epstein and Kupperman), 216, 219
Growth stimulation and antibiotics (Shils), 330
Guanethidine (Friend), 276

H

Hallucinogens, exploratory trials in man (Pfeiffer), 398
Halothane, circulatory effects in patients with heart disease (Kubota and Vandam), 153
Heart disease, circulatory effects of halothane in patients with, 153
measurements after digitalization (Schröder et al.), 425
Hemodynamics during rest and exercise before and after prolonged digitalization in normal subjects, 425
Hemophilus influenzae (Dowling, Lepper, and Jackson), 564
Heroin (Murphree), 486; (Vandam) 833
Hexobarbital, species differences in metabolism (Brodie), 378
Hexylcaine hydrochloride (Vandam), 133
HN2, sterilization of rabbit Vx-2 carcinoma cells with (Mori et al.), 447
Hormone, new, angiotensin (Page and Bumpus), 758
Hospital-acquired staphylococcal infections, carried in nasal cavity, neomycin spray in treatment (Hussar), 441
Human bioassay of four butyrophenone derivatives in psychoneurotics, modified technique (Nodine et al.), 432
experimentation, principle of consent, some fallacies and errors in application (Beecher) (Edit.), 141
pharmacology and clinical drug evaluation, symposium, 235, 239, 242, 246, 254, 369, 374, 381, 385, 389, 392, 397, 505, 510, 519, 528, 665, 673, 682, 685
of tranquilizing drugs (Domino), 599
volunteers, assay methods of tetracycline and demethylchlortetracycline in, variable sensitivity (Lichter and Sobel), 580
Humans, quantitative studies in, on antagonism of lysergic acid diethylamide by chlorpromazine and phenoxybenzamine (Murphree), 314
Hydralazine (Friend), 279
Hydrazine derivatives (Werner), 65, 71
Hydrocarbons, polycyclic aromatic, cancer hazard (Hueper), 785
Hypertension, is angiotensin the cause? (Page and Bumpus), 770
therapy (Friend), 269
Hypoglycemic agent, new, oral, acetohexamide, comparison with other sulfonylurea drugs in diabetes mellitus (Boshell et al.), 750
agents, assay in man (Frawley and Shelley), 528
oral (Boshell and Barrett), 705
Hypothesis in clinical pharmacology (Greiner), 147

I

Iatrogenic disease (Moser), 258, 400, 535, 688, 814
Imipramine (Domino), 606; (Overall et al.) 16; (Werner) 63, 75, 80
Implantation, interference with (Epstein and Kupperman), 222
Infections, chronic bronchial, suppressive therapy (Dowling, Lepper, and Jackson), 564
Isonipecaine (Murphree), 488
Insulin, effects on future anesthesia (Elliott), 50
evidence against its control of glucose production by liver (Seed, Acton, and Stunkard), 200
Ionizing radiation, cancer hazard (Hueper), 803
Iproniazid (Werner), 65, 71
Iron, cancer hazard (Hueper), 799
Irradiation, cancer hazard, 803
Isocarboxazide (Overall et al.), 16; (Werner) 65, 75
Isopropyl oil, cancer hazard (Hueper), 790

K

Khellin, use for angina (Modell), 104; (Rinzler) 505
Kidneys, role in hypertension (Page and Bumpus), 758

L

Labyrinth, influence of cinnarizine on (Philipszoon), 184
Latency in occupational cancer (Hueper), 804
Laxative therapy in chronic constipation (Kirsner et al.), 516
Lectures on the scientific basis of medicine (British Postgraduate Medical Federation) (B. rev.), 123
Levallorphan (Vandam), 835
Levorphan (Murphree), 488

Levorphan—Cont'd
antitussive activity (Bickerman), 357
Levorphanol (Vandam), 835
Lidocaine hydrochloride (Vandam), 134
Liver, fatty, and tetracyclines (Shils), 331
glucose production (Seed, Acton, and Stunkard), 199
potential drug toxicity to (Popper), 385
Local anesthetics (Vandam), 131
Lung cancer, occupational and environmental causes (Hueper), 776
Lysergic acid diethylamide, antagonism by chlorpromazine and phenoxybenzamine, quantitative studies in humans (Murphree), 314

M

Macromolecule, clinical pharmacology (Regelson and Holland), 730
Man, assay of hypoglycemic agents in (Frawley and Shelley), 528
Mathematical model for appraisal of glucose metabolism (Seed, Acton, and Stunkard), 191
of drug transport, schematic diagram for programming on analog computer (Taylor and Wiegand), 464
Mecamylamine (Friend), 278
Medical pharmacology; principles and concepts (Goth) (B. rev.), 121
physiology (Bard) (B. rev.), 122
progress, diseases of, present status (Moser), 258, 400, 535, 688, 814
Menopausal index (Kupperman), 520
Mepazine (Domino), 603
Meperidine (Brodie), 375; (Taylor et al.) 593
antitussive activity (Bickerman), 357
opioids (Murphree), 488
and piperidine derivatives (Vandam), 835
Mephobarbital, effectiveness in motor seizures, comparison with phenobarbital, primidone, diphenylhydantoin, ethotoin, metharbital, and methylphenylethylhydantoin (Gruber, Brock, and Dyken), 23
Mepivicaine hydrochloride (Vandam), 134
Meprobamate (Domino), 641; (Holliday and Devery) 5
Metabolic aspects of tetracyclines (Shils), 321
fate of chlordiazepoxide (Domino), 650
of meprobamate, 647
of phenothiazines, 621
of Rauwolfia alkaloids, 640
pathways (Greenberg) (B. rev.), 414
Metabolism of drugs, data on, extrapolating from animal to man, difficulties (Brodie), 374
glucose, model for appraisal (Seed, Acton, and Stunkard), 191
Metabolite, control of glucose production by liver, evidence (Seed, Acton, and Stunkard), 202
Metahexamide (Frawley and Shelley), 532
Metamphetamine (Werner), 61
Methadone (Murphree), 491; (Vandam) 837
antitussive activity (Bickerman), 357
Methantheline (Kirsner et al.), 514
Metharbital, effectiveness in motor seizures, comparison with phenobarbital, mephobarbital, primidone, diphenylhydantoin, ethotoin, and methylphenylethylhydantoin (Gruber, Brock, and Dyken), 23
Methdilazine (Domino), 603
new phenothiazine, clinical investigation (Taylor et al.), 593
Methicillin (Dineen), 224
Methoserpidine (Domino), 630
Methotrexate (amethopterin) (Liguori et al.), 34
failure to cause sterilization of rabbit Vx-2 carcinoma cells in vitro (Mori et al.), 447
Methotrimeprazine (Domino), 603
Methoxypromazine, 603
Methyldihydromorphinone (Murphree), 486; (Vandam) 834
6-Methyleneoxytetracycline, oral doses, antibacterial activity of serum after (Remington and Finland), 284
Methylphenidate (Werner), 62, 76
Methylphenylethylhydantoin, effectiveness in motor seizures, comparison with phenobarbital, mephobarbital, primidone, diphenylhydantoin, ethotoin, and metharbital (Gruber, Brock, and Dyken), 23
Mitomycin C, sterilization of rabbit Vx-2 carcinoma cells with (Mori et al.), 447
Metopon (Vandam), 834
Modern treatment yearbook (Wakely) (B. rev.), 821
Monoamine oxidase inhibition (Werner), 78
inhibitors, use for angina pectoris (Modell), 105
Morphinan and benzmorphan opioids (Murphree), 488
Morphinans (Vandam), 835
Morphine, 833
antitussive activity (Bickerman), 357
summarization of current knowledge (Murphree), 473
Morpholinylethylmorphine, antitussive activity (Bickerman), 357
Motor seizures, comparison of effectiveness of phenobarbital, mephobarbital, primidone, diphenylhydantoin, ethotoin, metharbital, and methylphenylethylhydantoin (Gruber, Brock, and Dyken), 23

Muscarinic receptor (Werner), 61
Mustard gas, cancer hazard (Hueper), 789

N

Nalorphine, antidotal effect on morphine (Murphree), 484
and narcotic antagonism (Vandam), 834
Narcotic analgesics, clinical pharmacology, 827
centrally acting antitussive agents (Bickerman), 357
Narcotics (Murphree), 479
Nasal carriers of staphylococcus, neomycin spray in treatment (Hussar), 441
Natriuretic action of chlorothiazide (Kessler), 111
of diuretics (Martz), 340
Neomycin spray in treatment of nasal carriers of staphylococcus (Hussar), 441
New information on drugs
Drugs exempted from labeling requirements, 263
Food additives; definitions and procedural and interpretative regulations, 545
New drugs for investigational use; proposed exemptions, 695
U. S. adopted names, 263, 404, 543, 693, 818
Nialamide (Werner), 65, 74
Nickel, cancer hazard (Hueper), 800
Nicotinic acid, hypocholesterolemic action (Lown, Portman, and Stare) (Edit.), 422
Nitrites, use in anginal therapy (Modell), 98
Nitrofuran derivatives, use in chemical interference with spermatogenesis (Epstein and Kupperman), 218
Nitrogen balance, changes caused by tetracyclines (Shils), 322
mustard, sterilization of rabbit Vx-2 carcinoma cells with (Mori et al.), 447
Nonester compound anesthetics (Vandam), 134
Nonnarcotic centrally acting antitussive agents (Bickerman), 358
Noscapine, antitussive activity (Bickerman), 358

O

Occupational and environmental cancer hazards (Hueper), 776
Oleandomycin-penicillin therapy of chronic bronchial infections (Dowling, Lepper, and Jackson), 564
Opiates, morphine derivatives (Murphree), 486
Opioids, diphenylheptane derivatives and analogues, 491
meperidine series, 488
morphinan and benzmorphan series, 488
Opium, 473
alkaloids, antitussive activity (Bickerman), 357
natural (Vandam), 832
synthetic, 833
Oral hypoglycemic agents (Boshell and Barrett), 705
Organic chemicals, carcinogenic (Hueper), 782
Ovarian inhibition, direct (Epstein and Kupperman), 221
Oxymorphone (Murphree), 487; (Vandam) 834
Oxytetracycline (Shils), 322

P

P-2565 (Domino), 632
Pain; its modes and functions (Buytendijk) (B. rev.), 822
relief by potent analgesics, mechanisms (Murphree), 492
Pantopon (Vandam), 832
Papaverine, use for angina pectoris (Modell), 104
Pathologic physiology; mechanisms of disease (Sodeman) (B. rev.), 413
Penicillin, use in suppressive therapy of chronic bronchial infections (Dowling, Lepper, and Jackson), 564
Penicillinase (Dineen), 224
Penicillins, semisynthetic, clinical pharmacology, 224
Pentaerythrityl tetranitrate, use for angina (Rinzler), 505
Pentolinium (Friend), 278
Peptic ulcer, evaluation of drugs for (Kirsner et al.), 514
Peptide conformation in angiotensin (Page and Bumpus), 762
Perfusion system, experimental, utilizing rabbit Vx-2 carcinoma; correlative studies of in vitro sterilization of Vx-2 cells with results of perfusions in rabbits and patients (Mori et al.), 447
Perphenazine (Domino), 603
Peripherally acting antitussive agents (Bickerman), 364
Pfizer handbook of microbial metabolites (Miller) (B. rev.), 265
Pharmaceutic and physicochemical properties of drugs that influence results of clinical trials (Nelson), 673
preparation and clinical efficacy of drugs (Friend), 417
Pharmacologic actions of yohimbine and chlorpromazine in man (Ingram), 345
discovery by anesthesiologists (Vandam) (Edit.), 281
laboratory, eye as (Leopold) (Edit.), 561
Pharmacological and chemical synonyms (Marler) (B. rev.), 701
Pharmacology, clinical, of antianginal drugs (Modell), 97
of antitussive agents (Bickerman), 353
of central stimulant and antidepressant drugs (Werner), 59

Pharmacology, clinical—Cont'd
of chlorothiazide compounds (Kessler), 109
a definition (Modell), 235
and experimental, of parenteral spiramycin (Back et al.), 305
hypothesis in (Greiner), 147
of macromolecule; effect of anionic polyelectrolyte (polyethylene sulfonate) in cancer (Regelson and Holland), 730
of the narcotic analgesics (Vandam), 827
of potent analgesics (Murphree), 473
of semisynthetic penicillins (Dineen), 224
human, and clinical drug evaluation, symposium, 235, 239, 242, 246, 254, 369, 374, 381, 385, 389, 392, 397, 505, 510, 519, 528, 665, 673, 682, 685
of tranquilizing drugs (Domino), 599
Phenazocine (Murphree), 488; (Vandam) 837
Phenelzine (Werner), 65, 74
Phenethicillin (Dineen), 224
Phenformin (Boshell and Barrett), 713; (Frawley and Shelley) 529
Pheniprazine (Werner), 65, 75
Phenmetrazine, 61, 77
Phenobarbital (Kirsner et al.), 515
effectiveness in motor seizures, comparison with mephobarbital, primidone, diphenylhydantoin, ethotoin, metharbital, and methylphenylethylhydantoin (Gruber, Brock, and Dyken), 23
Phenothiazine, new, methdilazine, clinical investigation (Taylor et al.), 593
Phenothiazines (Elliott), 45
substituted (Domino), 603
α-Phenoxyalkylpenicillins (Dineen), 228
Phenoxybenzamine and chlorpromazine, antagonism of lysergic acid diethylamide by, quantitative studies in humans (Murphree), 314
α-Phenoxybutylpenicillin (Dineen), 224
α-Phenoxyethylpenicillin, 228
α-Phenoxyisobutylpenicillin, 224
α-Phenoxyisopropylpenicillin, 224
Phenoxymethylpenicillin (penicillin V), 224
α-Phenoxypropylpenicillin, 224
Phenylbutazone (Brodie), 375
5-Phenyl-2-imino-4-oxo-oxazolidine (PIO) (Dureman), 29
behavioral patterns of antibarbituric action after (Dureman), 163
Phenylmercaptomethylpenicillin (Dineen), 224
Physicochemical and pharmaceutic properties of drugs that influence results of clinical trials (Nelson), 673
Physiological regulation of salivary secretions in man (Kerr) (B. rev.), 553
Pipamazine (Domino), 603
Piperocaine hydrochloride (Vandam), 133
Pipradol (Werner), 62, 77
Pituitary-adrenal agents, effects on future anesthesia (Elliott), 42
agents, posterior, 49
Placebos; problems and pitfalls (Wolf), 254
Plasma binding of tetracyclines (Remington and Finland), 298
drug kinetics and analog computer (Taylor and Wiegand), 464
Plastics, carbon and silicon, cancer hazard (Hueper), 801
Pneumococcus (Dowling, Lepper, and Jackson), 564
Poisoning, morphine, treatment (Murphree), 495
Polycyclic aromatic hydrocarbons and carbonaceous combustion and distillation products, cancer hazards (Hueper), 785
Polyethylene sulfonate, an anionic polyelectrolyte, in patients with cancer; clinical pharmacology of a macromolecule (Regelson and Holland), 730
Polymers, carbon and silicon, cancer hazard (Hueper), 801
Posterior pituitary agents, effects on future anesthesia (Elliott), 49
Potentiation of other drugs by phenothiazines (Domino), 620
Primidone, effectiveness in motor seizures, comparison with phenobarbital, mephobarbital, diphenylhydantoin, metharbital, and methylphenylethylhydantoin (Gruber, Brock, and Dyken), 23
Principles of medical statistics (Hill) (B. rev.), 412
Procaine (Vandam), 132
Proclorperazine (Domino), 603
Progestogens, clinical evaluation, problems (Kupperman), 519
Progress in drug research (Jucker) (B. rev.), 411
Promazine (Domino), 603
Promethazine, 603
Propantheline (Kirsner et al.), 514
Propiomazine (Domino), 603
L-Propoxyphene napsylate, antitussive activity (Bickerman), 361
Prothipendyl (Domino), 608
Psychiatric judgment depression scale (Overall et al.), 18
Psychoneurotic patients, bioassay of four butyrophenone derivatives in, modified technique (Nodine et al.), 432
Psychopharmacology, research (Merlis), 389
studies, clinical, validity (Werner), 59
Pulmonary diseases, suppressive therapy (Dowling, Lepper, and Jackson), 564
function tests, 576
Pyrathiazine (Domino), 603

Q

Quinazolinone sulfonamide (quinethazone) (Seller et al.), 180

R

R-1625, R-1647, R-1892, and R-2167, butyrophenone derivatives, bioassay in psychoneurotic patients, modified technique (Nodine et al.), 432

Rabbit Vx-2 carcinoma, experimental perfusion system utilizing; correlative studies of in vitro sterilization of Vx-2 cells with results of perfusions in rabbits and patients (Mori et al.), 447

Radiation, ionizing, cancer hazard (Hueper), 803
ultraviolet, cancer hazard, 802

Radiomimetic compounds, use in chemical interference with spermatogenesis (Epstein and Kupperman), 218

Rauwolfia alkaloids and related compounds (Domino), 630

Regional neurochemistry (Kety and Elkes) (B. rev.), 264

Renal function, action of angiotensin on (Page and Bumpus), 769

Renin-angiotensin system, 758

Rescinnamine (Domino), 630; (Friend) 273

Research, clinical judgment in (Ingelfinger), 685
drug, animal variables in, control and exploration (Ingle), 242
and the martyred scientist; who killed Cock Robin? (Dragstedt) (Edit.), 721

Reserpine (Domino), 630
in antihypertensive therapy (Friend), 271
response to test drugs after (Ingram), 347

Respiratory cancer, environmental and occupational causes (Hueper), 776
effects of narcotic analgesics (Vandam), 828

Ro 4-1398 and Ro 4-1284 (Domino), 632

Ro 4-1778/1, analgesic effect (Murphree), 492

S

Salt form of drugs, influence on results (Nelson), 675

Scientist, research and; who killed Cock Robin? (Dragstedt) (Edit.), 721

Sedative effects of chlordiazepoxide (Domino), 650

Seizures, motor (Gruber, Brock, and Dyken), 23

Selenium, cancer hazard (Hueper), 797

Semisynthetic penicillins, clinical pharmacology (Dineen), 224

Sensitivity, variable, of assay methods of tetracycline and demethylchlortetracycline in human volunteers (Lichter and Sobel), 580

Sequential test for relative effectiveness of two therapies, standard, modification (Street), 246

Serotonin (Werner), 59

Serum, antibacterial activity after oral doses of tetracycline, demethylchlortetracycline, and 6-methyleneoxytetracycline (Remington and Finland), 284
after tetracycline and demethylchlortetracycline (Lichter and Sobel), 582
cholesterol, agents which lower, comments (Lown, Portman, and Stare) (Edit.), 421
concentrations of amethopterin, effects of different dose schedules (Liguori et al.), 34

Sex steroids, problems in clinical evaluation (Kupperman), 519

Shock, angiotensin in treatment (Page and Bumpus), 766
pathogenesis and therapy (Bock) (B. rev.), 820

Silicon polymers and plastics, cancer hazard (Hueper), 801

Simultaneous symmetrical paired comparisons, method (Sulzberger) (Edit.), 1

Skeletal motor systems, effects of phenothiazines on (Domino), 614
muscle relaxant effects of meprobamate, 643

Skin, human, evaluation of therapeutic agents on; method of simultaneous symmetrical paired comparisons (Sulzberger) (Edit.), 1

Some recent developments in the chemistry of phosphate esters of biological interest (Khorana) (B. rev.), 123

Sperm motility, interference with (Epstein and Kupperman), 219

Spermatogenesis, interference with, 216

Spiramycin, parenteral, clinical and experimental pharmacology (Back et al.), 305

Staphylococcus 209P (Lichter and Sobel), 580
aureus (Dowling, Lepper, and Jackson), 564
nasal carriers, neomycin spray in treatment (Hussar), 441

Sterilization of Vx-2 cells, studies on correlation with results of perfusions in rabbits and patients (Mori et al.), 447

Steroids, sex, problems in clinical evaluation (Kupperman), 519

Stimulant drugs, central (Werner), 59
behavioral effects from three types, differential patterning (Dureman), 29

Streptococcus 98 (Lichter and Sobel), 580
antibacterial activity against, in serum (Remington and Finland), 284

Structure and function of muscle; pharmacology and disease (Bourne) (B. rev.), 266

Style manual for biological journals (Conference

of Biological Editors) (B. rev.), 554
Substituted phenothiazines (Domino), 603
sulfonylureas, hypoglycemic activity (Frawley and Shelley), 528
Sulfanilamide (Kessler), 109
Sulfonamides, use for chronic bronchial infections (Dowling, Lepper, and Jackson), 564
Sulfonylurea drugs (Boshell and Barrett), 705
other, and acetohexamide, comparison in diabetes mellitus (Boshell et al.), 750
substituted, hypoglycemic activity (Frawley and Shelley), 528
Suppressive therapy of chronic bronchial infections (Dowling, Lepper, and Jackson), 564
Symmetrical paired comparisons, simultaneous, method (Sulzberger) (Edit.), 1
Sympathetic inhibitors (Friend), 276
Symposium on chemical carcinogenesis. Introduction (Shimkin), 774
I. Environmental and occupational cancer hazards (Hueper), 776
on clinical drug evaluation and human pharmacology. Introduction. Clinical pharmacology: A definition (Modell), 235
I. General problems in selection of drugs for clinical use (Zubrod), 239
II. Control and exploration of animal variables in drug research (Ingle), 242
III. Modification of standard sequential test for relative effectiveness of two therapies (Street), 246
IV. Placebos: Problems and pitfalls (Wolf), 254
V. An ametric approach to bioassay (Bross), 369
VI. Difficulties in extrapolating data on metabolism of drugs from animal to man (Brodie), 374
VII. Correlation with potential toxicity to man of toxic effects in animals (Paget), 381
VIII. Potential drug toxicity to the liver (Popper), 385
IX. Research on psychopharmacology (Merlis), 389
X. Evaluation of antibacterial agents (Lepper), 392
XI. Exploratory trials of new drugs in man (Pfeiffer), 397
XII. Assessment of antianginal agents (Rinzler), 505
XIII. Problems in evaluation of gastrointestinal drugs (Kirsner et al.), 510
XIV. Problems in clinical evaluation of sex steroids (Kupperman), 519
Symposium on clinical drug evaluation and human pharmacology—Cont'd
XV. Assay of hypoglycemic agents in man (Frawley and Shelley), 528
XVI. Evaluation of the safety of new drugs by means of tests in animals (Litchfield), 665
XVII. Physicochemical and pharmaceutic properties of drugs that influence the results of clinical trials (Nelson), 673
XVIII. Data management (Roach), 682
XIX. Clinical judgment in clinical research (Ingelfinger), 685
Synthetic Rauwolfia derivatives (Domino), 632
Syrosingopine, 630; (Friend) 273
Systemic reactions to local anesthetics (Vandam), 134

T

Test, standard sequential, for relative effectiveness of two therapies, modification (Street), 246
Testosterones (Kupperman), 524
Tetrabenazine (Domino), 632
Tetracaine (Vandam), 133
Tetracycline and demethylchlortetracycline, assay methods in human volunteers, variable sensitivity (Lichter and Sobel), 580
oral doses, antibacterial activity of serum after (Remington and Finland), 284
some metabolic aspects (Shils), 321
use in suppressive therapy of chronic bronchial infections (Dowling, Lepper, and Jackson), 564
Thebaine (Murphree), 475
Therapeutic agents, evaluation on human skin; method of simultaneous symmetrical paired comparisons (Sulzberger) (Edit.), 1
response to R-1625, R-1647, R-1892, and R-2167, butyrophenone derivatives (Nodine et al.), 434
use of opiates and opioids (Murphree), 493
Therapies, relative effectiveness of two, modification of standard sequential test (Street), 246
Therapy, drug, in depressions; controlled evaluation of imipramine, isocarboxazide, dextroamphetamine-amobarbital, and placebo (Overall et al.), 16
poor (Friend), 557
previous, influence on anesthesia (Elliott), 41
suppressive, of chronic bronchial infections (Dowling, Lepper, and Jackson), 564
Thiethylperazine (Domino), 603
Thioperazine, 603

Thiopropazate, 603
Thioridazine, 603
Tissue concentrations of amethopterin, effects of different dose schedules (Liguori et al.), 34
destruction caused by local anesthetics (Vandam), 138
rate of uptake of glucose as function of glucose concentration (Seed, Acton, and Stunkard), 204
Toadstool millionaires (Young) (B. rev.), 121
Tolbutamide (Boshell and Barrett), 705; (Boshell et al.) 750; (Frawley and Shelley) 529
Tolerance to morphine, mechanisms (Murphree), 481
Topical anesthesia (Vandam), 140
Toxic effects of antibiotic therapy (Dowling, Lepper, and Jackson), 577
of chlordiazepoxide (Domino), 651
of chlorpropamide (Boshell and Barrett), 712
of 5-fluoro-2′-deoxyuridine (Mori et al.), 458
of gastrointestinal drugs (Kirsner et al.), 513
of local anesthetics (Vandam), 135
of meprobamate (Domino), 649
of methotrexate (Mori et al.), 458
of narcotic analgesics (Vandam), 831
of phenformin (Boshell and Barrett), 714
of polyethylene sulfonate (Regelson and Holland), 732
of potent analgesics (Murphree), 495
of R-1625, R-1647, R-1892, and R-2167, butyrophenone derivatives (Nodine et al.), 436
of Rauwolfia alkaloids (Domino), 641
of spiramycin (Back et al.), 306
of substituted phenothiazines (Domino), 626
of tetracyclines (Remington and Finland), 300
of tolbutamide (Boshell and Barrett), 709
hazards (Massachusetts Medical Society) (B. rev.), 264
Toxicity to liver, drug, potential (Popper), 385
potential to man, correlation of toxic effects in animals with (Paget), 381
Tranquilizers, effects on future anesthesia (Elliott), 45
human pharmacology (Domino), 599
Triamterene, natriuretic potency (Martz), 340
Trichlormethiazide (Friend), 274
Tridihexethyl iodide (Kirsner et al.), 514
Trifluoperazine (Domino), 603
Triflupromazine, 603
Trimeprazine, 603
Trimethidinium (Friend), 278
Tumor response to polyethylene sulfonate (Regelson and Holland), 735
Tumorigenic and arteriosclerotic associations of exogenous and endogenous agents (Hueper), 792

U

U-14462, new sulfonylurea, hypoglycemic activity (Frawley and Shelley), 533
U. S. adopted names, 263, 404, 543, 693, 818
Ulcer, peptic, evaluation of drugs for (Kirsner et al.), 514
Ulcerative colitis, evaluation of drugs for, 515
Ultraviolet radiation, cancer hazard (Hueper), 802
Uric acid, effects of chlorothiazide on (Kessler), 115
Urinary excretion patterns of amethopterin, effects of different dose schedules (Liguori et al.), 34

V

Vasodilatation for angina (Rinzler), 518
Vertigo, influence of cinnarizine on (Philipszoon), 184
Visammin, use for angina (Modell), 104
Vitamins and tissue extracts, use for angina, 104

W

W1206 (Holliday and Devery), 5

X

Xanthines, use for angina (Modell), 103

Y

Yohimbine, pharmacologic actions in man (Ingram), 345